

Professional and Managerial Branch
Miscellaneous Professional Group
Sciences Series

INDUSTRIAL PRETREATMENT CHEMIST

10/92

Summary

Under direction, supervises chemists and technical personnel conducting chemical and bacteriological analyses of water, wastewater and industrial samples and supervises industrial pretreatment technicians in sampling of industrial process; performs related duties as required.

Typical Duties

Coordinates the collection and analysis of water, wastewater and industrial samples; conducts required analyses of water and wastewater samples to assure water and wastewater quality conforms to federal, state and local standards; maintains records of samples collected and test results; notifies supervisor of results; operates and maintains special laboratory equipment; uses a computer to analyze and maintain records of data collection, samples tested and results.

Supervises, assigned personnel; enforces safe working practices and standards of conduct and attendance; maintains current knowledge of chemical testing equipment and procedures and federal, state and local legislation pertaining to water quality testing regulations and standards, including industrial pretreatment standards; researches and recommends the purchase of new laboratory equipment.

Prepares Industrial pretreatment discharge permits consistent with chemical discharge limits allowed for the specific appropriate industry. Performs analysis and calculations to assist in calculation of technical based local limits. Analyzes self-reporting data submitted by industries for compliance with permits including determining and approving sampling techniques and analysis protocols. Works with industries to establish proper monitoring and analysis techniques. Monitors the activities of septic waste disposal. Monitors industrial data and determines surcharges. Supervises industrial pretreatment inspectors and teaches them proper sampling techniques and flow monitoring techniques.

Minimum Qualifications

Training and Experience: Graduation from an accredited college or university with a Bachelor's Degree in Chemistry, Bacteriology or a related field and two years professional laboratory work experience including one year of supervisory experience in the capacity of a chemist; or an or an equivalent combination of training and experience.

Knowledge, Skills and Abilities: Considerable knowledge of equipment, procedures and techniques used in a chemical analysis laboratory; considerable knowledge of the theories, principles and practices of chemistry and bacteriology; considerable knowledge of the use and care of special chemical analysis equipment; considerable knowledge of the hazards of the trade, including the effects of the chemicals used, and of the safe working practices and equipment of the trade including "confined space" entry; good knowledge of supervisory methods.

Ability to perform laboratory analyses to determine water quality; ability to understand and follow instructions; ability to maintain effective working relationships with fellow employees; ability to maintain records and prepare reports.

Ability to detect systems deviating from required conditions; ability to enforce sewage industrial pretreatment rules and regulations tactfully and impartially; ability to follow oral and written instructions; ability to express oneself clearly and concisely both orally and in writing; ability to establish and maintain effective working relationships with fellow employees and the general public; ability to prepare reports and maintain record and activity logs.

Skill in the operation of motor vehicle, skill in the use of hand tools.

Physical Requirements: Mobility in a field environment; operation of a motor vehicle through City traffic; contract with sewage wastewater; lift and carry samples and equipment; must access confined areas; exposure to all weather conditions.

Licenses and Certificates: Valid U.S. Drivers License.

Director of Personnel

Department Head